

Certificate of Analysis

Product: *Colostrum – Powder*
Batch Colostrum: **202502CP15**
Date of Manufacture: 02/2025 **Expiry:** 02/2028

Description: Colostrum Powder is a dried, skimmed powder that contains a high level of free Amino Acids and Immunoglobulins.

Product Characteristics:

- Appearance: yellow or yellowish powder
- Low fat content
- High in Immuno Globulins
- Pasteurized
- Contains dairy protein and lactose
- Free from inhibitory additives
- High in vitamins and minerals
- Bovine product

Composition:

Component	%	Test assay Reference
Protein	74,1	Kjeldahl Protein Assay
Water	2.1	Loss on drying
Lactose	16.3	Lactose standard Assay
Fat	0.6	Standard lipid Assay
Ash	5	Burning Assay
Immunoglobuline %	17.7	HPLC reference

Typical Amino Acid Profile: (mg/g)*

Alanine	8,0 - 9,0	Arginine	7,0 – 8,0
Asparagine acid	3,0 – 4,0	β-Alanine	0,2 – 0,5
β-Aminoisobutter acid	1,2 – 1,5	Citrulline	1,2 – 1,6
Cystine	0,2 – 0,4	Glutamine	9,0 – 10,0
Gluamine acid	40 – 55	Glycine	6,0 – 7,0
Histidine	1,5 – 2,5	Isoleucine	6,0 – 7,0
Leucine	12 – 13	Lysine	10 – 11
Methionine	1,2 – 1,8	Ornithine	0,6 – 1,1
Phenylalanine	6,5 – 7	Phosphorethanolamine	30 – 35
Phosphoserine	10 – 15	Prolin	7 – 12
Serine	5 – 8	Taurine	120 – 240
Threonine	3,5 – 5,0	Tryptophane	8 – 12
Tyrosine	3,5 – 5,5	Valine	12 – 16

* literature values

**year averages

Typical Vitamin Profile: (µg/100g)*

Vitamin A	490
Riboflavine (Vit. B2)	455
Cobalamine	0,5
Vitamin C	3100 – 3300
Tocopherol (Vit. E)	292

Thiamin (Vit. B1)	90
Pyrodoxine (Vit. B6)	40
Folic acid	60 – 70
Cholecalciferol (D3)	3,1 – 3,5
Ubichinon (Q10)	50 – 80

Typical Mineral Profile: (mg/g)*

Sodium	1,1
Calcium	5,5
Iron	0,005
Zinc	0,038
Phosphoric acid	4,4
Chlorine	17,97

Potassium	2,8
Magnesium	0,73
Copper	0,0003
Chromium	0,0002
Selenium	0,00004

Physical/Chemical Analysis:

PH	5,0 – 6,5
Color	white – yellow- creamy
Bulk Density	0,35 – 0.9
Flavour	milky, typical

Heavy Metal analysis**

Mercury	not detected
Cadmium	not detected
Total Arsenic	not detected
Lead	not detected
Pesticides	not detected
DDT and Isomers	not detected
PCB's	not detected

Microbiology Analysis:

Yeasts and moulds
E-Coli
Coliforms
Staphylococcus aureus
Salmonella
Enterobacteriaceae
Listeria

<1,0 x 10 ² cfu/g	OK
<1,0 x 10 ³ cfu/g	OK
<1,0 x 10 ³ cfu/g	OK
<1,0 x 10 ³ cfu/g	OK
negative / 25g	OK
<1,0 x 10 ³ cfu/g	OK
negative / 25g	OK

Packaging:

Multi-layer plastic bag in export carton

Shelf life is minimum 36 month if properly stored (dry/ cool/absence of light and air)

* literature values

**year avarages